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TWO NEW ASCLEPIADS FROM SZECHUAN, CHINA¹

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Tylophora minutiflora Woodson, sp. nov., fruticosa volubilis altitudine ignota; ramulis teretibus juventate sparse puberulis mox glabratis maturitate cortice brunneis inconspicue lenticellatis; foliis oppositis petiolatis elliptico-lanceolatis apice acutis acuminatisve basi obtusis 3.0–4.5 cm. longis 0.7–1.8 cm. latis membranaceis post exsiccationem inconspicue bullatis caeterumque glabris; petiolis 0.3–0.5 cm. longis glabris; inflorescentiis lateralibus cymosis foliis multo brevioribus paucifloris; pedunculo petiolos duplo vel triplo superante sparse minutissimeque puberulo; pedicellis 0.25–0.3 cm. longis ut in pedunculo vestitis; bracteis lanceolatis ca. 0.1 cm. longis; calycis laciniis ovatis fere obtusis 0.15 cm. longis extus minute pilosulis intus basi in marginibus squamellas 4–5 gerentibus; corollae rotatae luteo-viridis extus intusque glabrae tubo vix manifesto basi ca. 0.075 cm. diametro metiente, lobis ovatis obtusis cum tubo ca. 0.35 cm. longis patulis; gynostegio ca. 0.18 cm. longo; antheris oblongo-sagittatis anguste obscurissimeque auriculatis apice obtusis hyalinis ca. 0.11 cm. longis coronae segmentum unciforme ca. 0.025 cm. longum leviter inflexum dorso ad insertionem filamenti quoque gerentibus; pollinibus ovoideis minutissime polyconvexis ca. 0.01 cm. longis; caudiculis brevissimis; retinaculo compresse obovoideo-sagittato

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vix 0.01 cm. aequante; ovario glabro ca. 0.1 cm. alto; stigmatе obovoideo inconspicue bullato apice paululo bipartito ca. 0.07 cm. longo extra antheras conspicuissime exserto viridulo; folliculis ignotis.—CHINA: SZECHUAN: O-pien Hsien, alt. 900 m., mountain slope along roadside, May 15, 1932, *T. T. Yü* 745 (Herb. Arnold Arboretum, TYPE, Herb. Missouri Bot. Garden, analytical drawings).

The inflorescence of this species recalls that of *T. fasciculata* Ham. in general construction, but the flowers of the latter are somewhat larger, the corona segments globular, and the stigma,

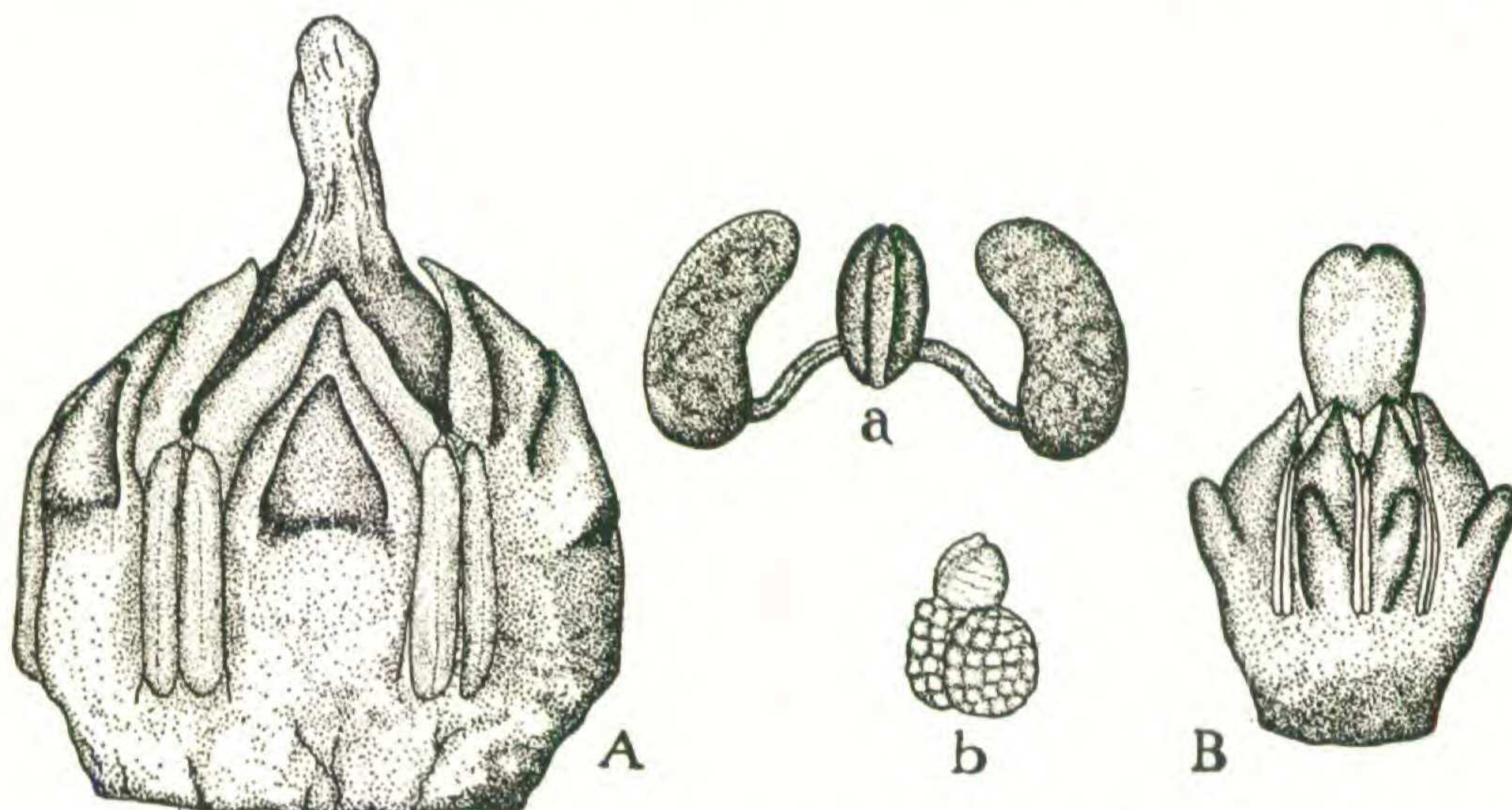


Fig. 1. A, gynostegium ($\times 8\frac{1}{2}$), and a, pollinia ($\times 30$), of *Marsdenia carnea* Woods.; B, gynostegium ($\times 20$), and b, pollinia ($\times 92$), of *Tylophora minutiflora* Woods.

although exserted beyond the anther-tips, does not attain such extreme development. Apparently *T. minutiflora* is most closely allied to *T. pseudotenerrima* Pitard, of French Indo-China, which I know only from the rather meagre original diagnosis. The latter species seems to differ in having linear or linear-lanceolate leaves 4.0–9.5 cm. long and only 0.5–1.1 cm. broad with a distinct marginal vein, while the calyx-lobes are described as acute, and the corolla as pubescent within. The description of the corona segments pronounces them “gibbous,” as in *T. minutiflora*, but relative dimensions are not given. The stigma of *T. pseudotenerrima* has not been de-

scribed, and the aspect and dimensions of the other components of the gynostegium, including the pollinia, likewise have been neglected.

Marsdenia carnea Woodson, sp. nov., suffruticosa volubilis altitudine ignota; ramulis teretibus post exsiccationem longitudinaliter striatis juventate leviter pilosulis maturitate glabratis cortice olivaceis; foliis oppositis longiuscule petiolatis ellipticis apice fere subcaudato-acuminatis basi acutis saepe fere attenuatis 6–12 cm. longis 1.5–4.0 cm. latis coriaceis post exsiccationem olivaceis supra juventate sparse pilosulis maturitate glabratis nervo medio venisque minute scaberulis subtus minutissime velutino-papillatis; petiolis 1.5–2.0 cm. longis minute puberulis; inflorescentiis lateralibus alternatis umbellato-cymosis paucifloris; pedunculo leviter puberulo petiolos paulo superante; pedicellis 0.9–1.0 cm. longis ut in pedunculo vestitis; calycis laciniis late ovatis obtusis 0.2–0.25 cm. longis extus pilosulis intus basi squamellam parvam gerentibus; corollae urceolato-campanulatae carnea tubo 0.7 cm. longo basi ca. 0.5 cm. diametro metiente extus glabro intus minute puberulo; lobis late ovatis obtusis rotundatisve ca. 0.2 cm. longis leviter recurvatis; gynostegio ca. 0.6 cm. longo; antheris late oblongo-sagittatis apice anguste acutis ca. 0.3 cm. longis dorso paululo supra medium coronae segmentum triangulare acuminatum ca. 0.07 cm. longum quoque gerentibus; pollinibus oblongoideo-reniformibus leviter inflexis ca. 0.05 cm. longis; caudiculis pollinia subaequantibus; retinaculo late oblongo-sagittato ca. 0.02 cm. longo; ovario glabro ca. 0.1 cm. longo; stigmatе conico apice anguste obtuso inconspicue bipartito conspicue exserto antheras ca. bis superante; folliculis ignotis.—CHINA: SZECHUAN: twining on shrub, Mt. Omei, alt. 1770 m., July 9, 1931, *F. T. Wang 23275* (Herb. Missouri Bot. Garden, TYPE).

Closely related to *M. Calesiana* Wight, which is characterized by cordate foliage, much-branched cymes, and corollas which are pubescent externally.